

Fig. 26—Installing Drive Pinion Companion Flange

(21) Insert drive pinion and bearing assembly through axle housing. Install new collapsible spacer over pinion stem. Position front pinion bearing cone over pinion stem.

Install companion flange using Tool C-3718 and holding Tool C-3281 (Fig. 26). This is necessary in order to properly install front pinion bearing cone on pinion stem due to interference fit.

CAUTION: During installation of front pinion bearing cone, be careful not to collapse spacer.

(22) Remove tool and flange from pinion stem.

(23) Install drive pinion oil seal.

On 7-1/4 inch axles use Tool C-4002 or C-3719.

On 8-1/4 inch axles use Tool C-4076.

Seal is properly installed when seal flange contacts housing flange face (Fig. 27). Outside diameter of seal is precoated with a special sealer so no sealing compound is required.

(24) While supporting pinion in carrier reinstall companion flange using tools previously described.

(25) Remove tools and install Belleville washer (convex side of washer out) and pinion nut.

(26) Hold universal joint flange with holding Tool C-3281 and tighten pinion nut to remove

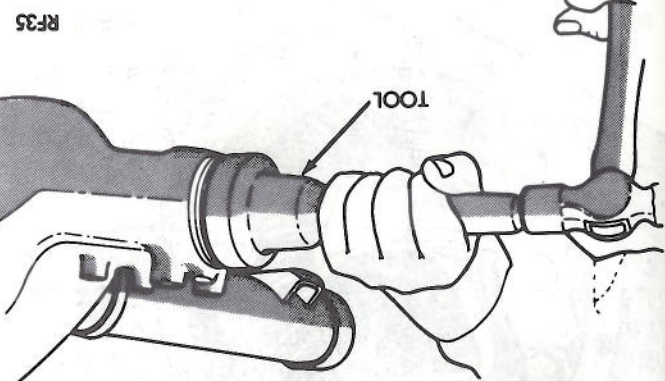


Fig. 27—Installing Drive Pinion Oil Seal

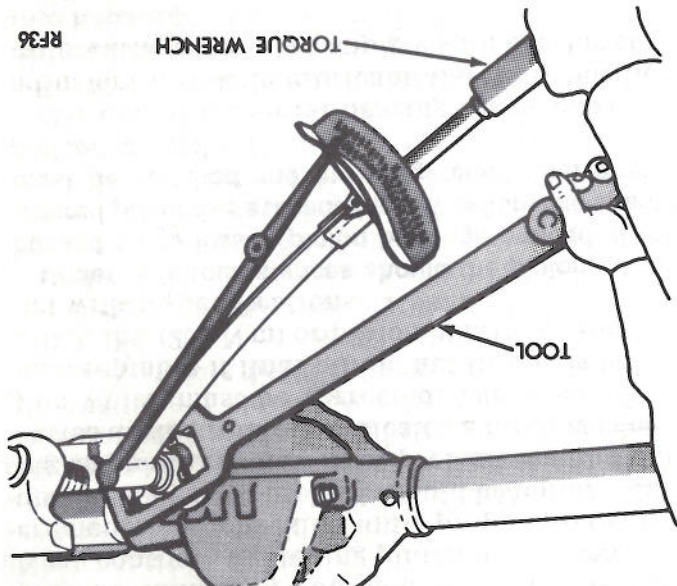


Fig. 28—Tightening Drive Pinion Nut

end play in pinion, while rotating the pinion to insure proper bearing roller seating (Fig. 28).

(27) Remove holding tool and rotate pinion several complete revolutions in both directions to permit bearing rollers to seat.

(28) Tighten pinion nut to 210 ft. lbs. (284 N-m) and measure pinion bearing preload by rotating pinion using an inch-pound torque wrench.

The correct bearing preload specifications are 15 to 30 in. lbs. (1 to 3 N-m) for 7-1/4 inch axles and 20 to 35 in. lbs. (2 to 4 N-m) for 8-1/4 inch axles for new bearings with the pinion nut tightened to 210 ft. lbs. (285 N-m) minimum (Fig. 28, 29). If when rebuilding the axle and the original rear pinion bearing and a new front pinion bearing are used, the correct bearing preload is 10 in. lbs. (1 N-m) more than the reading taken at time of tear down with a minimum of 210 ft. lbs. (285 N-m) of torque on the pinion nut. If correct

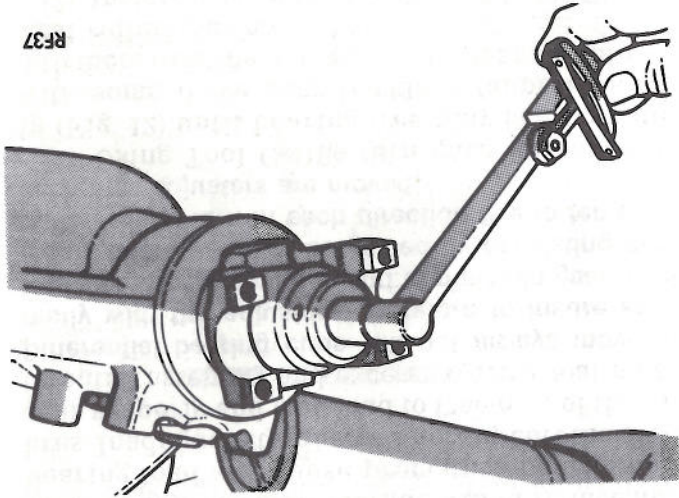


Fig. 29—Measuring Drive Pinion Bearing Preload